

11/30/00 #9

14

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1719.0050002

APPLICATION NO.
99/407,371

APPLICANT
Rothschild *et al.*

FILING DATE
September 28, 1999

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-------------------------|-------|-----------|-------------|
| <i>En</i> | AA1 | 5,297,143 | 03/1994 | Fridrich <i>et al.</i> | 370 | 85.3 | |
| <i>En</i> | AB1 | 5,418,912 | 05/1995 | Christenson | 395 | 200 | |
| <i>En</i> | AC1 | 5,481,735 | 01/1996 | Mortensen <i>et al.</i> | 395 | 200.1 | |
| <i>En</i> | AD1 | 5,590,281 | 12/1996 | Stevens | 395 | 200.01 | |
| <i>En</i> | AE1 | 5,674,127 | 10/1997 | Horstmann <i>et al.</i> | 463 | 42 | |
| <i>En</i> | AF1 | 5,761,436 | 06/1998 | Nielsen | 395 | 200.75 | |
| <i>En</i> | AG1 | 5,784,568 | 06/1998 | Needham | 395 | 200.64 | |
| <i>En</i> | AH1 | 5,812,552 | 09/1998 | Arora <i>et al.</i> | 370 | 401 | |
| <i>En</i> | AI1 | 5,930,259 | 07/1999 | Katsube <i>et al.</i> | 370 | 409 | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>En</i> | AJ1 | WO 93/15572 | 08/1993 | PCT | H04J | 3/26 | Yes No |
| | AK1 | | | | | | Yes No |
| | AL1 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| <i>En</i> | AM | 1 | Addeo, E.J. <i>et al.</i> , "A Multi-Media Multi-Point Communication Services Capability for Broadband Networks," 1987, pp. 423-428. |
| <i>En</i> | AN | 1 | Addeo, E.J. <i>et al.</i> , "Personal Multi-Media Multi-Point Communication Services for Broadband Networks," 1988, pp. 53-57. |
| <i>En</i> | AO | 1 | Aguilar, Lorenzo, "Datagram Routing for Internet Multicasting," 1984, pp. 58-63. |
| <i>En</i> | AP | 1 | Aguilar, L. <i>et al.</i> , "Architecture for a Multimedia Teleconferencing System," 1986, pp. 126-136. |
| <i>En</i> | AQ | 1 | Aras, C. <i>et al.</i> , "Real-Time Communication in Packet-Switched Networks," 1994, pp. 122-139. |

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1719.0050002APPLICATION NO.
89407,371APPLICANT
Rothschild *et al.*FILING DATE
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| | AA2 | | | | | | |
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| | AJ2 | | | | | | Yes No |
| | AK2 | | | | | | Yes No |
| | AL2 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|----------|---|
|  | AM | <u>2</u> | Baguette, Yves and Danthine, André, "Comparison of TP4, TCP and XTP- Part 1: Connection Management Mechanisms (*)," Vol. 3-N 5, Sept-Oct. 1992, pp. 1-12. |
|  | AN | <u>2</u> | Baker, Rusti <i>et al.</i> , "Multimedia Processing Model for a Distributed Multimedia I/O System*," <i>Network and Operating System Support for Digital Audio and Video</i> , 1992, pp. 164-175. |
|  | AO | <u>2</u> | Bettati, R. <i>et al.</i> , "Connection Establishment for Multi-Party Real-Time Communication," <i>Network and Operating Systems Support for Digital Audio and Video</i> , 1995, pp. 240-250. |
|  | AP | <u>2</u> | Bharath-Kumar, Kadaba and Jaffe, Jeffrey M., "Routing to Multiple Destinations in Computer Networks," 1983, pp. 343-351. |
|  | AQ | <u>2</u> | Birchler, Barbara D. <i>et al.</i> , "Toward a general Theory of Unicast-Based Multicast Communication*," pp. 237-251. |

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| 16 FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 1719.0050002 | APPLICATION NO. 09/407,371 |
| | APPLICANT Rothschild <i>et al.</i> | |
| | FILING DATE September 28, 1999 | |

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| U.S. PATENT DOCUMENTS | | | | | | | |
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| | AA3 | | | | | | |
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| 5,630,757 FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AJ3 | | | | | | Yes No |
| | AK3 | | | | | | Yes No |
| | AL3 | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
|--|----|----------|--|
|  | AM | <u>3</u> | Birman, K.P. and Joseph, T.A., "On Communication Support for Fault Tolerant Process Groups," <i>Network Working Group Request for Comments: 992</i> , November 1986, pp. 1-16. |
|  | AN | <u>3</u> | Braden, Robert <i>et al.</i> , "The Design of the RSVP Protocol," RSVP Project: Final Report, May 27, 1993-June 30, 1995, pp. 1-21. |
|  | AO | <u>3</u> | Brown, E.F. <i>et al.</i> , "A Continuous Presence Video Conferencing System," 1978, pp. 34.1.1-34.1.4. |
|  | AP | <u>3</u> | Brown, T. <i>et al.</i> , "Packet Video for Heterogeneous Networks Using CU-SEEME," <i>Proceedings ICIP-96</i> , September 16-19, 1996, pp. 9-12. |
|  | AQ | <u>3</u> | Bubenik <i>et al.</i> , "Multipoint Connection Management in High Speed Networks," 1991, pp. 59-68. |

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FORM PTO-1449

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09/003371APPLICANT
Rothschild *et al.*FILING DATE
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT






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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|------|------|-------|-----------|-------------|
| | AA4 | | | | | | |
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| | AI4 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ4 | | | | | | Yes No |
| | AK4 | | | | | | Yes No |
| | AL4 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|---|---|
|  | AM | 4 | Casner, Stephen <i>et al.</i> , "N-Way Conferencing with Packet Video," <i>The Third International Workshop on Packet Video</i> , March 22-23, 1990, pp. 1-6. |
|  | AN | 4 | Chia, L.T. <i>et al.</i> , "An Experimental Integrated Workstation for Teleconferencing," <i>Integrating Telecommunications and Information Technology on the Desktop</i> , March 1994, pp. 1-5. |
|  | AO | 4 | Clark, David D. <i>et al.</i> , "Supporting Real-Time Applications in an Integrated Services Packet Network: Architecture and Mechanism," 1992, pp. 14-26. |
|  | AP | 4 | Clark, William J., "Multipoint Multimedia Conferencing," <i>IEEE Communications Magazine</i> , May 1992, pp. 44-50. |
|  | AQ | 4 | Cohen, David M. and Heyman, Daniel P., "Performance Modeling of Video Teleconferencing in ATM Networks," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , Vol. 3, No. 6, December 1993, pp. 408-420. |

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097487, 371

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U.S. PATENT DOCUMENTS

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| | AA5 | | | | | |
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|------------------|-----------------|------|---------|-------|-----------|-------------|
| | AJ5 | | | | | Yes No |
| | AK5 | | | | | Yes No |
| | AL5 | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----------|----|----------|---|
| <i>Zn</i> | AM | <u>5</u> | Crowcroft, J. <i>et al.</i> "Multimedia TeleConferencing over International Packet Switched Networks. RN/90/XX," <i>IEEE Conference on Communications Software: Communications for Distributed Applications & Systems</i> , April 18-19, 1991, pp. 23-33. |
| <i>Zn</i> | AN | <u>5</u> | Deering, Stephen <i>et al.</i> , "An Architecture for Wide-Area Multicast Routing," 1994, pp. 126-135. |
| <i>Zn</i> | AO | <u>5</u> | Deering, Stephen E., "Multicast Routing in Internetworks and Extended LANs," <i>SIGCOMM '88 Symposium Communications Architectures & Protocols</i> , August 16-19, 1988, pp. 55-64. |
| <i>Zn</i> | AP | <u>5</u> | Deering, Stephen E. and Cheriton, David R., "Multicast Routing in Datagram Internetworks and Extended LANs," <i>ACM Transactions on Computer Systems</i> , May 1990, Vol. 8, No. 2, pp. 85-110. |
| <i>Zn</i> | AQ | <u>5</u> | Dewan, Prasun and Choudhary, Rajiv. "A High-Level and Flexible Framework for Implementing Multiuser User Interfaces," <i>ACM Transactions on Information Systems</i> , October 1992, Vol. 10, No. 4, pp. 345-380. |

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| | AA6 | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ6 | | | | | | Yes No |
| | AK6 | | | | | | Yes No |
| | AL6 | | | | | | Yes No |

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|--|----|----------|---|
|  | AM | <u>6</u> | Draoli, M. <i>et al.</i> , "Video Conferencing on a LAN/MAN Interconnected System: QoS Evaluation," <i>Proceedings of the Fourth International Conference on Computer Communications and Networks</i> , September 20-23, 1995, pp. 170-177. |
|  | AN | <u>6</u> | Draoli, M. <i>et al.</i> , "Videoconferencing on a LAN/MAN Architecture: Service Evaluation and System Dimensioning," <i>Communications Technology Proceedings</i> , 1996, Vol. 2, pp. 630-633. |
|  | AO | <u>6</u> | Ensor, J. Robert <i>et al.</i> , "The Rapport Multimedia Conferencing System- A Software Overview," <i>2nd IEEE Conference on Computer Workstations</i> , March 7-10, 1988, pp. 52-58. |
|  | AP | <u>6</u> | Ferrari, Domenico <i>et al.</i> , "Network support for multimedia A discussion of the Tenet Approach," <i>Computer Networks and ISDN Systems</i> , 1994, pp. 1267-1280. |
|  | AQ | <u>6</u> | Fliessner, R.J. <i>et al.</i> , "Design of a Multicast ATM Packet Switch," <i>1993 Canadian Conference on Electrical and Computer Engineering</i> , Vol. 1, pp. 779-783. |

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| | AA7 | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| | AJ7 | | | | | | Yes No |
| | AK7 | | | | | | Yes No |
| | AL7 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|----|---|---|
|  | AM | Z | Han, Jefferson and Smith, Brian, "CU-SeeMe VR Immersive Desktop Teleconferencing," <i>ACM Multimedia</i> , 1996, 9 pages. |
|  | AN | Z | Harju, Jarmo <i>et al.</i> , "Quality and Performance of a Desktop Video Conferencing System in the Network of Interconnected LANs," <i>Proceedings of the 19th Conference on Local Networks</i> , 1994, pp. 365-371. |
|  | AO | Z | Heinrichs, Bernd and Jakobs, Kai, "OSI Communication Services Supporting CSCW Applications," <i>SIGDOC '93</i> , 1993, pp. 107-115. |
|  | AP | Z | Herzog, Shai <i>et al.</i> , "Sharing 'Cost' of Multicast Trees: An Axiomatic Analysis," <i>ACM SIGCOMM '95 Conference</i> , August 1995, pp. 1-15. |
|  | AQ | Z | Hopper, Andy, "Pandora-an experimental system for multimedia applications," <i>Operating Systems Review</i> , April 1990, Vol. 24, Number 2, pp. 19-34. |

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| <p style="text-align: center;">FORM PTO-1449</p> <p>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</p> | <p>ATTY. DOCKET NO. 1719.0050002</p> <p>APPLICATION NO. 09/407,371</p> <p>APPLICANT Rothschild <i>et al.</i></p> <p>FILING DATE September 28, 1999</p> |
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| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AJ8 | | | | | | Yes No |
| | AK8 | | | | | | Yes No |
| | AL8 | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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| | AM | <u>8</u> | Huang, Jau-Hsiung <i>et al.</i> , "Design and Implementation of Multimedia Conference System on Broadcast Networks*", <i>18th Conference on Local Computer Networks</i> , 1993, pp. 337-341. |
| | AN | <u>8</u> | Jia, Weija, "Implementation of a Reliable Multicast Protocol," <i>Software- Practices & Experiences</i> , July 1997, pp. 813-849. |
| | AO | <u>8</u> | Koerner, Eckhart, "Group Management for a Multimedia Collaboration Service," <i>Presented at EUNICE '96 Summer School on Telecommunications Services</i> , September 23-27, 1996, pp. 1-11. |
| | AP | <u>8</u> | Kohlert, Doug <i>et al.</i> , "Implementing a Graphical Multi-user Interface Toolkit," <i>Software-Practice and Experience</i> , September 1993, Vol. 23, No. 9, pp. 981-999. |
| | AQ | <u>8</u> | Larsen, A.B. and Brown, E.F., "'Continuous Presence' Video Conferencing at 1.5-6Mb/sec," pp. 391-398. |

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



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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ9 | | | | | | Yes No |
| | AK9 | | | | | | Yes No |
| | AL9 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|---|--|
|  | AM | 2 | Lauwers, J. Chris and Lantz, Keith A., "Collaboration Awareness in Support of Collaboration Transparency: Requirements for the Next of Shared Window Systems," <i>CHI '90 Proceedings</i> , April 1990, pp. 303-311. |
|  | AN | 2 | Leung, Wu-hon F. <i>et al.</i> , "A Software Architecture for Workstations Supporting Multimedia Conferencing in Packet Switching Networks," <i>IEEE Journal on Selected Areas in Communications</i> , April 1990, Vol. 8, No. 1, pp. 380-390. |
|  | AO | 2 | Li, L. <i>et al.</i> , "Real-time Synchronization Control in Multimedia Distributed Systems," pp. 294-305. |
|  | AP | 2 | Li, S. <i>et al.</i> , "VC collaborator: a mechanism for video conferencing support*," <i>Proceedings of SPIE</i> , October 1995, pp. 89-99. |
|  | AQ | 2 | Mathy, L. and Bonaventure, O., "The ACCOPI Multimedia Transport Service over ATM," <i>Proceedings of 2nd COST237 Workshop on Teleservices and Multimedia Communication</i> , November 20-22, 1995, pp. 159-175. |

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| | AA10 | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|------|-----------------|------|---------|-------|-----------|-------------|
| | AJ10 | | | | | | Yes No |
| | AK10 | | | | | | Yes No |
| | AL10 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----------|----|-----------|--|
| <i>En</i> | AM | <u>10</u> | Mathy, L. <i>et al.</i> , "A Group Communication Framework," <i>Broadband Islands '94: Connecting with the End-user</i> , 1994, pp. 167-178. |
| <i>Zh</i> | AN | <u>10</u> | Mathy, L. <i>et al.</i> , "Towards an Integrated Solution for Multimedia Communications," <i>Rev. AIM</i> , 1996, pp. 3-10. |
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| <i>Zh</i> | AP | <u>10</u> | McCanne, S. and Vetterli, M., "Joint Source/Channel Coding for Multicast Packet Video," <i>Proceedings of the International Conference on Image Processing</i> , October 23-26, 1995, pp. 25-28. |
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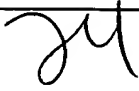
EXAMINER

ZARNI MAUNG

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|  FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 1719.0050002 | APPLICATION NO. 09/607-371 |
| | APPLICANT Rothschild <i>et al.</i> | |
| | FILING DATE September 28, 1999 | |

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| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
| | AA11 | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AJ11 | | | | | | Yes No |
| | AK11 | | | | | | Yes No |
| | AL11 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AP | 11 | Nichols, Kathleen M., "Network Performance of Packet Video on a Local Area Network," <i>IPCCC '92</i> , April 1-3, 1992, pp. 0659-0666. |
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| EXAMINER ZARNI MAUNG | DATE CONSIDERED 12/1/00 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | |

FORM PTO-1449

ATTY. DOCKET NO.
1719.0050002APPLICATION NO.
09/407,371APPLICANT
Rothschild *et al.*FILING DATE
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT






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| | AJ12 | | | | | | Yes No |
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| | AL12 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
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FORM PTO-1449

ATTY. DOCKET NO.
1719.0050002APPLICATION NO.
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Rothschild *et al.*FILING DATE
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| | AJ13 | | | | | | Yes No |
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| | AL13 | | | | | | Yes No |

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| | | | |
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FORM PTO-1449

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09/402,871APPLICANT
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| | AJ14 | | | | | | Yes No |
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| | AL14 | | | | | | Yes No |

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FORM PTO-1449

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1719.0050002APPLICATION NO.
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Rothschild *et al.*FILING DATE
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| | AA15 | | | | | | |
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| | AJ15 | | | | | | Yes No |
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| | AL15 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AM | 15 | Schooler, Eve M. <i>et al.</i> , "Multimedia Conferencing: Has it come of age?" Reprinted from the <i>Proceedings 24th Hawaii International Conference on System Sciences</i> , January 1991, Vol. 3, pp. 707-716. |
|  | AN | 15 | Soman, Sadhna and Singh, Suresh, "An Experimental study of Video Conferencing over the Internet," <i>IEEE Globecom '94</i> , 1994, pp. 720-724. |
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FORM PTO-1449

ATTY. DOCKET NO.
1719.0050002APPLICATION NO.
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Rothschild *et al.*FILING DATE
September 28, 1999

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| | AA16 | | | | | | |
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| | AJ16 | | | | | | Yes No |
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| | AL16 | | | | | | Yes No |

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1719.0050002

APPLICATION NO.
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| | AJ17 | | | | | Yes No |
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| | AL17 | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AN | 17 | Wilde, Erik and Plattner, Bernhard, "Transport-Independent Group and Session Management for Group Communications Platforms," <i>EIT</i> , July-August 1997, Vol. 8, No. 4, pp. 409-421. |
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FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1719.0050002

APPLICATION NO.
09/407,371

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Rothschild *et al.*

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| | AJ18 | | | | | | Yes No |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| <i>Zn</i> | AM | 18 | Xylomenos, George and Polyzos, G.C., "IP multicast group management for point-to-point local distribution," <i>Computer Communications</i> , 1998, pp. 1645-1654. |
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FORM PTO-1449

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APPLICATION NO.

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT


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| | AJ19 | | | | | | Yes No |
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| | AL19 | | | | | | Yes No |

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